

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A transmission method used in a radio system ~~comprising~~ including a base transceiver station ~~(200)~~ acting as a transceiver and subscriber terminals ~~(100,101)~~ acting as transceivers which are connected to each other ~~via~~ by means of a signal propagating through the base transceiver station ~~(200)~~, which signal contains speech or data which is coded before it is transmitted to the radio path and decoded when it is received from the radio path, and in which radio system the signal establishing the connection is transmitted in a radio channel formed for each connection, the method comprising:

~~characterized by measuring the radio channel;~~

~~and transmitting a control signal on the basis of the measurement results from a transceiver in DTX mode to a transceiver with which the transceiver in DTX mode has formed the radio channel~~[[,]]; ~~and~~

transmitting the control signal at a power level which is lower than the power level used in transmitting speech or data signals[[,]]; and

updating, with the received control signals, the operating parameters of the transceiver forming the radio channel to the transceiver in DTX mode, in such a way that when the coding rate of the speech coder increases, the coding rate of the channel coder decreases, and when the coding rate of the speech coder decreases, the coding rate of the channel coder increases.

2. (Currently Amended) The [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein the operating parameters are coding and decoding parameters which affect the coding and decoding rate of the transceiver.

3. (Canceled)

4. (Canceled)

5. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein, with the control signals, the control data of the coding of the signal to be transmitted to the radio path and the control data of the decoding of the signal received from the radio path are updated, whereby the adaptation rate of coding and decoding can be altered.

6. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein filler frames are transmitted during DTX, from which the status of the radio channel is measured, and when transmitting the filler frames, the transceiver in DTX mode is prevented from sending a control signal.

7. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein the coding and decoding is done with an AMR codec whose adaptation to the signal being coded or decoded is controlled with control signals.

8. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein during DTX, SID frames and L2 filler frames are transmitted at the same power level as speech and data signals, and the status of the radio channel is measured from the SID frames and L2 filler frames.

9. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein during DTX, a signal is transmitted, from which the status of the radio channel is measured, and status data of the radio channel is transmitted in a control signal on the basis of the measurement results obtained from the measuring.

10. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein during DTX, signals are transmitted, from which the radio channel is measured, and between the signals used for measuring, a control signal is transmitted in a continuous manner.

11. (Currently Amended) ~~The~~ [[A]] method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein during DTX, signals are transmitted, from which the radio

channel is measured, and between the signals used for measuring, a control signal is transmitted in a discontinuous manner.

12. (Currently Amended) A transceiver in a radio system including comprising a base transceiver station (200) acting as a transceiver and at least two subscriber terminals (100,101) acting as transceivers which are connected to each other by means of a signal propagating through the base transceiver station (200), which signal contains speech or data; the [[a]] transceiver in the radio system comprises comprising:

a coder (122), which codes the signal being transmitted to ~~the~~ a radio path, and a decoder (114), which decodes ~~the~~ a signal received by the transceiver, which has propagated in the radio path in ~~the~~ a radio channel formed for ~~the~~ a connection between the subscriber terminal and the base transceiver station; ~~characterized in that the radio system comprises~~

measuring means (115) which measure the status of the radio channel formed between the base transceiver station and the subscriber terminal,

transmission means (124) which transmit a control signal on the basis of the measurement results of the measuring means (115) from the transceiver in DTX mode to the transceiver with which the transceiver in DTX mode has formed a radio channel, and which transmission means transmit the control signal at a power level which is lower than the power level used for transmitting speech or data signals, and

control means (120) which update operating parameters with the received control signals from the transceiver which is connected to the transceiver in DTX mode by means of the radio channel, in such a way that when the coding rate of the speech coder increases, the coding rate of the channel coder decreases, and when the coding rate of the speech coder decreases, the coding rate of the channel coder increases.

13. (Currently Amended) The [[A]] transceiver as claimed in of claim 12, ~~characterized in that wherein~~ the operating parameters are coding parameters of the coder (122) and decoder (114), and updating them alters the coding and decoding rate used.

14. (Canceled)

15. (Canceled)

16. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein the coder (122) and decoder (114) alter their adaptation rate on the basis of the updating of the control signals.

17. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein the measuring means (115) measure the radio channel from the filler frames transmitted during DTX, and the transmission means (124) interrupt the transmission of the control signal while the filler frames are being transmitted.

18. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein the coder (122) and decoder (114) have been implemented with an AMR codec, for instance, whose adaptation to the signal to be coded or decoded is accelerated by updating the operating parameters.

19. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein during DTX, the transmission means (124) transmit SID frames and L2 filler frames at the same power level as speech and data signals, and the measuring means measure the radio channel from the SID frames and L2 filler frames.

20. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein in DTX mode, the transmission means (124) transmit a control signal in a continuous manner between the signals measured by the measuring means (115).

21. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein in DTX mode, the transmission means (124) transmit a control signal in a discontinuous manner between the signals measured by the measuring means (115).

22. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein the transceiver in DTX mode is a base transceiver station (200) which transmits a control signal to a transceiver which is a subscriber terminal.

23. (Currently Amended) The ~~[[A]]~~ transceiver ~~as claimed in~~ of claim 12, ~~characterized in that~~ wherein the transceiver in DTX mode is a subscriber terminal which transmits a control signal to a transceiver which is a base transceiver station (200).